Vendor: CISCO

Exam Code: 642-813

Exam Name: 642-813 SWITCH (Implementing Cisco IP Switched Networks)
QUESTION 1
Refer to the exhibit.

Switch_A(config-if)# ip address 10.10.10.1 255.255.255.0
Switch_A(config-if)# standby 1 priority 200
Switch_A(config-if)# standby 1 preempt
Switch_A(config-if)# standby 1 track interface fa 1/1
Switch_A(config-if)# standby 1 ip 10.10.10.10

Assume that Switch_A is active for the standby group and the standby device has only the default HSRP configuration. Which statement is true?

A. If port Fa1/1 on Switch_A goes down, the standby device takes over as active.
B. If the current standby device had the higher priority value, it would take over the role of active for the HSRP group.
C. If port Fa1/1 on Switch_A goes down, the new priority value for the switch would be 190.
D. If Switch_A had the highest priority number, it would not take over as active router.

Answer: C

QUESTION 2
Refer to the exhibit.

What does the command channel-group 1 mode desirable do?

A. enables LACP unconditionally
B. enables PAgP only if a PAgP device is detected
C. enables PAgP unconditionally
D. enables EtherChannel only
E. enables LACP only if an LACP device is detected

Answer: C

QUESTION 3
Refer to the exhibit. On basis of the configuration that is provided, where will the trust boundary be established in this network?

```
A_Switch1# configure terminal
A_Switch1(config)# mls qos
A_Switch1(config)# interface fastethernet0/1
A_Switch1(config-if)# mls qos trust cos
A_Switch1(config-if)# switchport voice vlan 10 dot1p
A_Switch1(config-if)# switchport priority ccs 5
A_Switch1(config-if)# end
```

A. at the PC
B. at the IP phone
C. at the access switch
D. at the distribution switch

Answers: C

QUESTION 4
A standalone wireless AP solution is being installed into the campus infrastructure. The access points appear to boot correctly, but wireless clients are not obtaining correct access. You verify that this is the local switch configuration connected to the access point:

```
interface ethernet 0/1
switchport access vlan 10
switchport mode access
spanning-tree portfast
```
mls qos trust dscp

What is the most likely cause of the problem?

A. QoS trust should not be configured on a port attached to a standalone AP.
B. QoS trust for switchport mode access should be defined as "cos".
C. switchport mode should be defined as "trunk" with respective QoS.
D. switchport access vlan should be defined as "1".

**Answer:** C

**QUESTION 5**

Refer to the exhibit.

```
Switch# show ip dhcp snooping
Switch DHCP snooping is enabled
DHCP Snooping is configured on the following VLANs: 10 30-40 100 200-220
Insertion of option 82 information is enabled.
   Interface      Trusted    Rate limit (pps)
---------------  ---------    ------------
FastEthernet2/1   yes        none
FastEthernet2/2   yes        none
FastEthernet3/1   no         20
Switch#
```

DHCP snooping is enabled for selected VLANs to provide security on the network. How do the switch ports handle the DHCP messages?

A. A DHCP OFFER packet from a DHCP server received on Ports Fa2/1 and Fa2/2 is dropped.
B. A DHCP packet received on ports Fa2/1 and Fa2/2 is dropped if the source MAC address and the DHCP client hardware address does not match Snooping database.
C. A DHCP packet received on ports Fa2/1 and Fa2/2 is forwarded without being tested.
D. A DHCP RELEASE message received on ports Fa2/1 and Fa2/2 has a MAC address in the DHCP snooping binding database, but the interface information in the binding database
does not match the interface on which the message was received and is dropped.

**Answer:** C

**QUESTION 6**
Which three statements about routed ports on a multilayer switch are true? (Choose three.)

A. A routed port can support VLAN subinterfaces.
B. A routed port takes an IP address assignment.
C. A routed port can be configured with routing protocols.
D. A routed port is a virtual interface on the multilayer switch.
E. A routed port is associated only with one VLAN.
F. A routed port is a physical interface on the multilayer switch.

**Answer:** BCF

**QUESTION 7**
Which two characteristics apply to Cisco Catalyst 6500 Series Switch supervisor redundancy using NSF? (Choose two.)

A. supported by RIPv2, OSPF, IS-IS, and EIGRP
B. uses the FIB table
C. supports IPv4 and IPv6 multicast
D. prevents route flapping
E. independent of SSO
F. NSF combined with SSO enables supervisor engine load balancing

**Answer:** BD

**QUESTION 8**
By itself, what does the command "aaa new-model" enable?
A. It globally enables AAA on the switch, with default lists applied to the VTYs.
B. Nothing; you must also specify which protocol (RADIUS or TACACS) will be used for AAA.
C. It enables AAA on all dot1x ports.
D. Nothing; you must also specify where (console, TTY, VTY, dot1x) AAA is being applied.

Answer: A

QUESTION 9
You are tasked with designing a security solution for your network. What information should be gathered before you design the solution?

A. IP addressing design plans, so that the network can be appropriately segmented to mitigate potential network threats
B. a list of the customer requirements
C. detailed security device specifications
D. results from pilot network testing

Answer: B

QUESTION 10
Which two components should be part of a security implementation plan? (Choose two.)

A. detailed list of personnel assigned to each task within the plan
B. a Layer 2 spanning-tree design topology
C. rollback guidelines
D. placing all unused access ports in VLAN 1 to proactively manage port security
E. enabling SNMP access to Cisco Discovery Protocol data for logging and forensic analysis

Answer: BC

QUESTION 11
Refer to the exhibit.
Switch# show ip arp
Protocol Address Age(min) Hardware Addr Type Interface
Internet 172.16.233.22 9   0000.0c59.f892 ARPA Vlan10
Internet 172.16.233.21 8   0000.0c63.1300 ARPA Vlan10
Internet 172.16.233.19  -  0000.0c07.ac0b ARPA Vlan10

Which statement best describes first-hop redundancy protocol status?

A. The first-hop redundancy protocol is not configured for this interface.
B. HSRP is configured for group 10.
C. HSRP is configured for group 11.
D. VRRP is configured for group 10.
E. VRRP is configured for group 11.
F. GLBP is configured with a single AVF.

Answer: C

QUESTION 12
Refer to the exhibit.
BPDUGuard is enabled on both ports of SwitchA. Initially, LinkA is connected and forwarding traffic. A new LinkB is then attached between SwitchA and HubA. Which two statements about the possible result of attaching the second link are true? (Choose two.)

A. The switch port attached to LinkB does not transition to up.
B. One or both of the two switch ports attached to the hub goes into the err-disabled state when a BPDU is received.
C. Both switch ports attached to the hub transitions to the blocking state.
D. A heavy traffic load could cause BPDU transmissions to be blocked and leave a switching loop.
E. The switch port attached to LinkA immediately transitions to the blocking state.

**Answer:** BD

**QUESTION 13**
Which protocol will enable a group of routers to form a single virtual router and will use the real IP address of a router as the gateway address?

A. Proxy ARP
B. HSRP
C. IRDP
D. VRRP
E. GLBP

**Answer:** D

**QUESTION 14**
Refer to the exhibit.
What can be concluded about VLANs 200 and 202?

A. VLAN 202 carries traffic from promiscuous ports to isolated, community, and other promiscuous ports in the same VLAN. VLAN 200 carries traffic between community ports and to promiscuous ports.
B. VLAN 202 carries traffic from promiscuous ports to isolated, community, and other promiscuous ports in the same VLAN. VLAN 200 carries traffic from isolated ports to a promiscuous port.
C. VLAN 200 carries traffic from promiscuous ports to isolated, community, and other promiscuous ports in the same VLAN. VLAN 202 carries traffic between community ports and to promiscuous ports.
D. VLAN 200 carries traffic from promiscuous ports to isolated, community, and other promiscuous ports in the same VLAN. VLAN 202 carries traffic from isolated ports to a promiscuous port.

Answer: B

QUESTION 15
Private VLANs can be configured as which three port types? (Choose three.)

A. isolated
B. protected
C. private
D. associated
E. promiscuous
F. community

Answer: AEF

**QUESTION 16**
Which protocol allows for the automatic selection and simultaneous use of multiple available gateways as well as automatic failover between those gateways?

A. IRDP
B. HSRP
C. GLBP
D. VRRP

Answer: C

**QUESTION 17**
DRAG DROP

Place the local and end to end VLAN functions on the left into the associated boxes on the right.
### local vlan

<table>
<thead>
<tr>
<th>Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>leverages on routing</td>
<td>Place Here</td>
</tr>
<tr>
<td>vtp client, server</td>
<td>Place Here</td>
</tr>
<tr>
<td>20/80</td>
<td>Place Here</td>
</tr>
<tr>
<td>vtp transparent</td>
<td>Place Here</td>
</tr>
<tr>
<td>80/20</td>
<td>Place Here</td>
</tr>
<tr>
<td>locally independent</td>
<td>Place Here</td>
</tr>
<tr>
<td>locally dependent</td>
<td>Place Here</td>
</tr>
<tr>
<td>leverages on stp</td>
<td>Place Here</td>
</tr>
</tbody>
</table>

**Answer:**

The correct configuration for the `local vlan` feature set includes:
- leverages on routing
- vtp client, server
- 20/80
- vtp transparent
- 80/20
- locally independent
- locally dependent
- leverages on stp

These features ensure comprehensive support and integration for network segments.
local vlan

vtp transparent

20/80

locally dependent

leverages on routing

end to end

vtp client, server

80/20

locally independent

leverages on stp
QUESTION 18
DRAG DROP

Place the local and distributed VLAN functions on the left into the associated boxes on the right.

Answer:
QUESTION 19
Place the DTP mode with its correct description.
<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trunk</td>
<td>Specifies that DTP packets are not sent out this interface</td>
</tr>
<tr>
<td>Nonegotiate</td>
<td>Sets the switch port to trunk mode and negotiates to become a trunk</td>
</tr>
<tr>
<td>Access</td>
<td>Sets a switch port to permanent nontrunking mode</td>
</tr>
<tr>
<td>Dynamic Auto</td>
<td>Sets the switch port to respond, but not actively send DTP frames</td>
</tr>
<tr>
<td>Dynamic Desirable</td>
<td>Makes the interface actively attempt to convert the link to a trunk link</td>
</tr>
</tbody>
</table>
QUESTION 20

Refer to the exhibit. Which statement is true about the repeater access point that is deployed in this wireless network?

A: The repeater access point should use a different SSID than the SSID configured on the parent access point.
B: The repeater access point should use a different WEP encryption method than the WEP encryption that is enabled on the parent access point.
C: The repeater access point reduces the throughput in half because it receives and then re-transmits each packet on the same channel.
D: The repeater access point requires a 10 percent channel overlap with channel of the root access point.

Answers:  C